

# 31 Lecture - CS501

## Important Mcqs

### 1. What is DMA?

- a) A technique that allows data to be transferred between peripheral devices and memory without the intervention of the processor.
- b) A method to transfer data using the processor as an intermediary.
- c) A technique to improve the processing speed of the processor.
- d) None of the above.

Answer: a

### What is the primary function of DMA?

- a) To reduce the load on the processor by allowing data transfers without its intervention.
- b) To increase the processing speed of the processor.
- c) To control the flow of data between the processor and peripherals.
- d) None of the above.

Answer: a

### Which of the following devices can benefit from DMA?

- a) Keyboard
- b) Mouse
- c) Hard disk
- d) All of the above

Answer: d

### Which of the following is not a benefit of using DMA?

- a) Reducing the load on the processor
- b) Faster data transfer rates
- c) Better control of data flow between peripherals and the processor
- d) None of the above

Answer: c

### Which component is used to manage the transfer of data using DMA?

- a) Peripheral devices
- b) Memory
- c) DMA controller
- d) Processor

Answer: c

### Which of the following is a disadvantage of using DMA?

- a) It can result in memory fragmentation.
- b) It can result in data corruption.
- c) It can result in slower data transfer rates.
- d) None of the above.

Answer: b

### Which of the following is not a type of DMA transfer?

- a) Single

- b) Burst
- c) Cycle-stealing
- d) Multitasking

Answer: d

**Which of the following is an example of a peripheral device that can initiate DMA transfers?**

- a) Hard disk
- b) Graphics card
- c) Sound card
- d) All of the above

Answer: d

**Which of the following is a limitation of DMA?**

- a) It can only transfer data in one direction.
- b) It can only transfer small amounts of data.
- c) It requires a lot of processor resources to function.
- d) None of the above.

Answer: a

**Which of the following is an advantage of DMA over programmed I/O?**

- a) It reduces the load on the processor.
- b) It allows for faster data transfer rates.
- c) It improves the control of data flow between peripherals and the processor.
- d) All of the above.

Answer: d